

# Fuji Miniature DIN Super Timers

## Overview

The ST7P is a compact and highly accurate timer. It is an on-delay operation type with a single timing range. These timers are designed to optimize mounting space in small areas. Mounting is by DIN rail or by securing directly to a panel with a fastener.

## Features

- Highly accurate, with a repeat accuracy within  $\pm 1\%$  at maximum setting time
- ST7P models offer a number of timing ranges. Please see Selection Guide below
- Large dial makes time setting easy
- LED indicators make it easy to monitor timer operation
- ST7P series meets UL and CSA standards



ST7P Miniature Super Timer with TP88X2 Socket

Product Selection Guide				
Part Number	Description	Voltage	Time Range	Price
<b>ST7P-2A15S-ADC</b>	Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved	100-120VAC	0.4 seconds to 5 seconds	<--->
<b>ST7P-2A13T-ADC</b>	Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		2 seconds to 30 seconds	<--->
<b>ST7P-2A16T-ADC</b>	Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		4 seconds to 60 seconds	<--->
<b>ST7P-2A11N-ADC</b>	Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		1 minute to 10 minutes	<--->
<b>ST7P-2A16N-ADC</b>	Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		4 minutes to 60 minutes	<--->
<b>ST7P-2DE5S-ADC</b>	Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved	24VDC	0.4 seconds to 5 seconds	<--->
<b>ST7P-2DE3T-ADC</b>	Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		2 seconds to 30 seconds	<--->
<b>ST7P-2DE6T-ADC</b>	Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		4 seconds to 60 seconds	<--->
<b>ST7P-2DE1N-ADC</b>	Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		1 minute to 10 minutes	<--->
<b>ST7P-2DE6N-ADC</b>	Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		4 minutes to 60 minutes	<--->
<b>TP88X2</b>	Socket for ST7P series timers. UL, CSA, TÜV approved	N/A	N/A	<--->

# Fuji Miniature DIN Super Timer Specifications

Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/Lights

Process

Relays/Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Appendix

Product Index

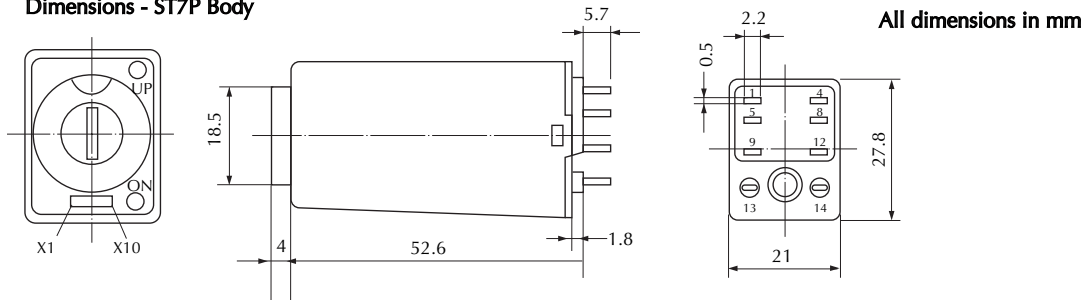
Part # Index

Specifications	
<b>Approvals</b>	UL file no.: Body - E44592, Socket - E90265; CSA file no.: LR20479; TÜV license no: R9551799
<b>Repeat Accuracy</b>	±0.1% at maximum setting time
<b>Reset Time</b>	0.1 second or less
<b>Maximum Operating Cycle</b>	1800 cycles/hour
<b>Operating Voltage Range</b>	85-132 VAC
	20.4-26.4 VDC
<b>Operating Temperature Range</b>	ST7P-2A15S-ADC ST7P-2A13T-ADC ST7P-2A16T-ADC ST7P-2A11N-ADC ST7P-2A16N-ADC
	ST7P-2DE5S-ADC ST7P-2DE3T-ADC ST7P-2DE6T-ADC ST7P-2DE1N-ADC ST7P-2DE6N-ADC
<b>Operating Temperature Range</b>	-10 to +50°C (14 to 122°F)
<b>Humidity</b>	35 to 85% (no condensation)
<b>Contact Ratings</b>	3 A @ 240 VAC resistive load, 1 A @120 VAC inductive load; 3 A @ 30 VDC resistive load, 0.5 A @ 30 VDC inductive load
<b>Power Consumption</b>	Approx. 1.2 VA at 100 VAC, approx. 1.5 VA at 200 VAC, 1.1 W at 24 VDC.
<b>Insulation Resistance</b>	100MΩ at 500 VDC insulation tested
<b>Surge Voltage*</b>	3000 Volts
<b>Dielectric Strength</b>	2000 VAC 1 min. between current carrying part and non-current carrying part
	2000 VAC 1 min. between output contact and control circuit
	1000 VAC 1 min. between open contacts
<b>Vibration</b>	Malfunction durability: 10 to 55Hz, 0.5mm double amplitude
	Mechanical durability: 10 to 55Hz, 0.7mm double amplitude
<b>Shock</b>	Malfunction durability: 50m/s <sup>2</sup>
	Mechanical durability: 1000m/s <sup>2</sup>
<b>Life Expectancy</b>	Mechanical: 50 million operations (No load; operation cycle 1800/hr.)
	Electrical: 500,000 operations (3 A @ 220 VAC, resistive load; operation cycle 1800/hr.)
<b>Weight</b>	36.288g (1.28 oz.)

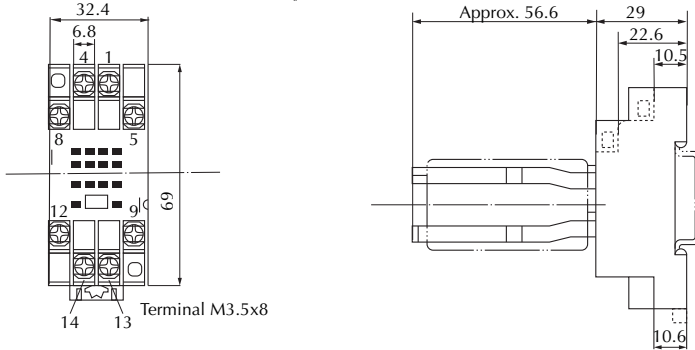
\* Note: If surge voltage exceeds 3000V, use surge suppressors.

# Fuji Miniature DIN Timers Timing and Wiring

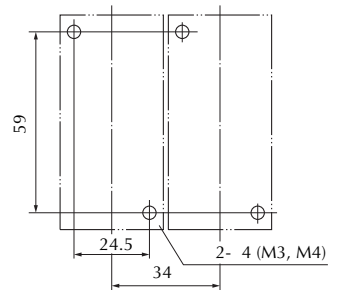
**Dimensions - ST7P Body**



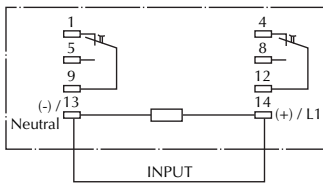
**Dimensions - TP88X2 Body**



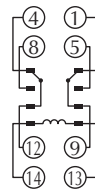
**Panel Drilling**



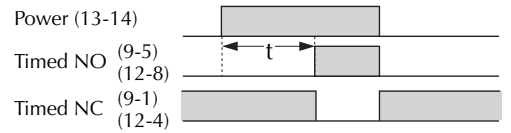
**Wiring Diagram**



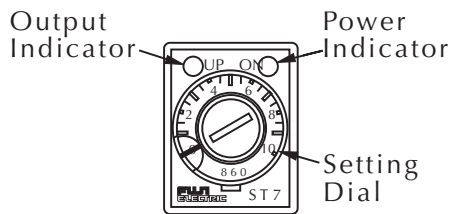
**Sockets/Screw Terminal and Rail Mounting**



**Timing Diagram**



**Control**



**Dimensions (Timer and Socket Attached)**

